

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of  
**Heinelt, et al.**

Examiner: Not Yet Assigned

Application No.: **To Be Assigned**

Art Unit: Not Yet Assigned

Filed: **May 6, 2004**

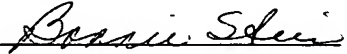
Title: **Process for synthesizing heterocyclic  
compounds**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

**May 6, 2004**

Date of Deposit

Bonnie Stein  
Signature



**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. 1.56, 1.97 AND 1.98**

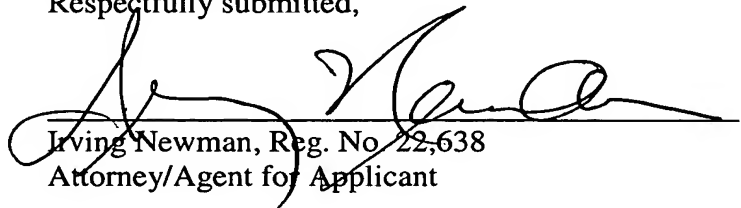
Mail Stop  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 C.F.R. 1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. 1.56(a). While the information referred to in this Information Disclosure Statement may be material pursuant to 37 C.F.R. 1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 C.F.R. 1.97(h), constitute an admission that any patent, publication or other information referred to is, or is considered to be, material to the patentability of this invention. Pursuant to 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information exists.

- ☒ (a) This Information Disclosure Statement is filed within the period set forth in §1.97(b) because it accompanies the new patent application submitted herewith, is filed within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in §1.491 in an international application, or is believed to be filed before the mailing date of a first Office Action on the merits, whichever event occurs last. However, in the event that the first office action has been mailed, the Commissioner is authorized to charge any fees under 37 C.F.R. 1.17(p) or credit any overpayment to Account No. **18-1982**.

- ☐ (b) This Information Disclosure Statement is filed after the period set forth in 37 C.F.R. 1.97(b), but is believed to be filed before the mailing date of a final action under §1.113 or a notice of allowance under §1.311, whichever occurs first.
- ☐ (1) The undersigned attorney certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement;
- ☐ (2) The undersigned attorney certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned attorney after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this statement; or
- ☐ (3) This Information Disclosure Statement is accompanied by a transmittal letter in which payment of the fee set forth in §1.17(p) and required by 37 C.F.R. 1.97(c) is authorized.

Respectfully submitted,

  
Irving Newman, Reg. No. 22,638  
Attorney/Agent for Applicant

Aventis Pharmaceuticals Inc.  
Patent Department  
Route #202-206 / P.O. Box 6800  
Bridgewater, NJ 08807-0800  
Telephone (908) 231-2785  
Telefax (908) 231-2626  
Aventis Docket No. DEAV2003/0047US NP



Please type a plus sign (+) inside this box → ☒

PTO/SB/08B (10-96)  
Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	To Be Assigned
				Filing Date	May 6, 2004
				First Named Inventor	HEINELT
				Group Art Unit	Not Assigned
				Examiner Name	Not Assigned
Sheet	2	of	3	Attorney Docket Number	DEAV2003/0047 - US - NP

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		ABSTRACTS, Reacciones Organicae: New methods in synthetic organic chemistry selected from the current chemical literature., Synthesis, 1974, pp 41-42	
		FELL JB et al, A Mild and Efficient Preparation of Carbodimides, Synthetic Communications, Vol. 25(1), 1995, pp 43-47	
		FERENC F et al, Synthesis of Steroisomeric Condensed-Skeleton 2-imino-substituted 1,3-oxazines, Tetrahedron, Vol. 41, No. 24, 1985, pp 5981-5988	
		ISOBE T et al, Preparation of 1,3-Unsubstituted and 1-Substituted 2-Iminoimidazolidine Derivatives and a Related Guanidine by the 2-Chloro-1,3-dimethylimidazolinium Chloride-Induced Cyclization of Thioureas, J. Org. Chem., Vol. 65, 2000, pp 7774-7778	
		JEN T et al, Amidines and Related Comounds. 6. 1 Studies on Structure-Activity Relationships of Antihypertensive and Antisecretory Agents Related to Clonidine, Journal of Medicinal Chemistry, Vol. 18, No. 1, 1975, pp 90-99	
		KIM TH et al, A mild cyclodesulfurization of N-(2-hydroxyethyl)-N1-phenylthioureas to 2-phenylamino-2-oxazolines using TsCl/NaOH, Tetrahedron, Vol. 57, 2001, pp 7137-7141	
		KIM TH et al, One-pot synthesis of 2-phenylaminothiazolines from N-(2-hydroxyethyl)-N1-phenylthioureas, Tetrahedron Letters, Vol. 40, 1999, pp 8201-8204	
		KRCHNAK V et al, A solid phas traceless synthesis of 2-arylaminobenzimidazoles, Tetrahedron Letters, Vol. 42, 2001, pp 1627-1630	
		LEE, G-J et al, Investigation of the Cyclization of N-(2-Hydroxyethyl)-N1-phenylthioureas: Mitsunobu Conditions vs TsCl/NaOH System, Bull. Korean Chem. Soc., Vol. 23, NO. 1, 2002, pp 19-20	
		MOHSEN A et al, The Cyclodesulfurization of Thio-compounds, Pharmazie, Vol. 35, 503, 1980, pp 798-799	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

☒

Approved for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	To Be Assigned
				Filing Date	May 6, 2004
				First Named Inventor	HEINLT
				Group Art Unit	Not Assigned
				Examiner Name	Not Assigned
				Attorney Docket Number	DEAV2003/0047 - US - NP

[illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.